

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A heat transport device comprising:

a first base plate including a liquid suction and retention unit ~~for sucking and retaining~~
provided to retain a liquid-phase working fluid by capillary force[[:]],

a body with protrusions on a bottom face thereof,

a second base plate facing the first base plate, the second base plate including a face provided with a first concavity functioning as a vaporization chamber ~~for vaporizing to~~
vaporize the liquid-phase working fluid retained in the liquid suction and retention unit to a gas-phase working fluid,

a second concavity functioning cooperating with the body to form as a liquefaction chamber ~~to liquefy for liquefying~~ the gas-phase working fluid vaporized at the vaporization chamber to the liquid-phase working fluid,

a first ditch functioning as forming a channel ~~to transport~~ for transporting the gas-phase working fluid from the vaporization chamber to the liquefaction chamber, and

a second ditch functioning as forming a further channel ~~for transporting to transport~~ the liquid-phase working fluid from the liquefaction chamber to the liquid suction and retention unit, and

a thermoplastic or thermosetting resin material bonding the first and second base plates.

Claim 2 (Currently Amended): The heat transport device according to claim 1,

further comprising:

a third base plate facing the second base plate, wherein so that the third base plate is disposed remote from the first base plate.

Claim 3 (Original): The heat transport device according to claim 2, wherein the first base plate and the third base plate envelop the second base plate, and the periphery of the first base plate and the periphery of the third base plate are sealed.

Claim 4 (Currently Amended): The heat transport device according to claim 1, further comprising:

~~a pair of laminating sheets sheet disposed on the top face of the first base plate and on the bottom face of the second base plate so as to envelop the first and the second base plates.~~

Claim 5 (Currently Amended): The heat transport device according to claim 4, wherein the ~~laminating sheets comprise~~ sheet comprises a metal foil.

Claim 6 (Original): The heat transport device according to claim 2, wherein the second base plate comprises a resin material and the third base plate comprises a metal material.

Claim 7 (Original): The heat transport device according to claim 6, wherein the difference in coefficient of linear expansion between the second base plate and the third base plate is 5×10^{-6} (1/ $^{\circ}$ C) or less.

Claim 8 (Currently Amended): The heat transport device according to claim 1, further comprising:

a fourth base plate facing the third base plate, wherein so that the fourth base plate is disposed remote from the first base plate.

Claim 9 (Withdrawn): A heat transport device comprising:

a vaporization unit including;

a first base plate having a liquid suction and retention unit for sucking and retaining a liquid-phase working fluid by capillary force;

a second base plate facing the first base plate, having a face provided with a concavity functioning as a vaporization chamber for vaporizing the liquid-phase working fluid retained in the liquid suction and retention unit to a gas-phase working fluid, and comprising a material having a thermal conductivity lower than that of silicon; and

a thermoplastic or thermosetting resin material for bonding the first and second base plates;

a liquefaction unit including;

a third base plate;

a fourth base plate facing the third base plate, having a face provided with a concavity functioning as a liquefaction chamber for liquefying the gas-phase working fluid to the liquid-phase working fluid, and comprising a material having a thermal conductivity lower than that of silicon; and

a thermoplastic or thermosetting resin material for bonding the third and fourth base plates;

a channel for transporting the gas-phase working fluid from the vaporization unit to the liquefaction unit; and

a channel for transporting the liquid-phase working fluid from the liquefaction unit to the vaporization unit.

Claim 10 (Currently Amended): A method for manufacturing a heat transport device, comprising:

~~a step of forming a first base plate including a liquid suction and retention unit for sucking and retaining provided to retain~~ a liquid-phase working fluid by capillary force, and a body provided with protrusions on a bottom face thereof;

~~a step of forming a second base plate including having a face provided with a first concavity functioning as a vaporization chamber to vaporize for vaporizing~~ the liquid-phase working fluid retained in the liquid suction and retention unit to a gas-phase working fluid, a second concavity functioning as a liquefaction chamber with the body to liquefy for liquefying the gas-phase working fluid vaporized at the vaporization chamber to the liquid-phase working fluid,

~~a first ditch functioning as a channel to transport for transporting~~ the gas-phase working fluid from the vaporization chamber to the liquefaction chamber, and a second ditch functioning as a further channel to transport for transporting the liquid-phase working fluid from the liquefaction chamber to the liquid suction and retention unit;

~~a step of laminating the first base plate, a thermoplastic or thermosetting resin material, and the second base plate; and~~

~~a step of bonding the first and the second base plates with the thermoplastic or thermosetting resin material by heating the composite of the first base plate, the thermoplastic or thermosetting resin material, and the second base plate under a pressurized condition.~~

Claim 11 (New): The heat transport device according to claim 1, wherein a top surface of the first base plate is covered with a protective film.

Claim 12 (New): The heat transport device according to claim 11, wherein the protective film includes silicon or titanium.

Claim 13 (New): The method for manufacturing a heat transport device according to claim 10, further comprising:

oxidizing a surface of the first base plate;
coating the oxidized surface with a thin film of silicon or titanium; and
oxidizing the coated surface by plasma treatment.